

Special Issue

Geochemical and Mineralogical Characteristics of Palaeokarstic Bauxite Deposits

Message from the Guest Editors

Bauxite deposits, which are residual weathering products generated through the weathering of a variety of metamorphic, igneous, and sedimentary aluminosilicate-rich parent rocks under humid tropical to subtropical climates, have been the subject of study for many decades. In recent years, researchers have become increasingly interested in the geochemical features of bauxite deposits developed on carbonate and aluminosilicate bedrocks. Despite several decades of research, there is a lack of a comprehensive understanding of the geochemical features of bauxites formed on palaeokarsts, especially the mechanism of the enrichment and distribution of critical elements. In addition to the Al concentration, palaeokarstic bauxite deposits host several trace elements, such as Ti, Ni, Co, V, Cr, Li, Ga, Ta, Sc, Nb, Zr, U, and REE.

Lastly, we invite articles covering the latest achievements from all geochemists and economic geologists worldwide, focusing on mineralogical and geochemical characteristics of palaeokarstic bauxite deposits from different parts of the world in this Special Issue.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

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